



PATENT

ATTORNEY DOCKET: 62698.000010

(W-K/S)
IfwUNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/015,939 Confirmation No.: 2933
Applicant : Prakash KADKADE
Filed : December 17, 2001
Title : CRYOPRESERVATION OF PLANT CELLS
TC/Art Unit : 1651
Examiner: : Deborah Ware

Docket No. : 62698.000010
Customer No. : 21967

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants are submitting herewith copies of the references listed on the attached Form PTO-SB/08A (modified) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

Applicants wish to bring to the Examiner's attention the International Search Report for International Application Number PCT/US96/09998, said International Application claiming the benefit of U.S. Patent Application No. 08/486,204, filed June 07, 1995, now U.S. Patent 5,965,438, to which the instant application also claims priority in the priority chain. A copy of the International Search Report for International Application Number PCT/US96/09998 is enclosed herewith for the Examiner's consideration.

Applicants also wish to bring to the Examiner's attention co-pending U.S. Patent Application No. 08/780,449, filed January 08, 1997. A copy of the co-pending patent application is provided herewith. An indication of consideration of the co-pending application by the Examiner would be appreciated.

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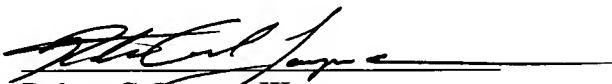
Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being submitted after the mailing of a non-final Office Action, but is believed to be prior to a final Office Action or a Notice of Allowance. Pursuant to 37 C.F.R. § 1.97(c)(2), a check in the amount of \$180.00 as set forth in § 1.17(p) is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any difference to the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: May 27, 2004

By: 
Robert C. Lampe, III
Registration No. 51,914

Hunton & Williams LLP
Intellectual Property Department
1900 K Street, N.W.
Suite 1200
Washington, DC 20006
(202) 955-1500 (telephone)
(202) 778-2201 (facsimile)

RCL/sdw



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(use as many sheets as necessary)*

Application Number	10/015,939
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First Named Inventor	Prakash KADKADE
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Examiner Name	Deborah K. Ware
Attorney Docket Number	62698.000010

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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 4191555	03-04-1980	Kliegman	
	2.	US 4784957	11-15-1988	Medgyesy et al.	
	3.	US 5071741	12-10-1991	Brockbank	
	4.	US 5674701	10-07-1997	Ecker et al.	
	5.	US 5736369	04-07-1998	Bowen et al.	
	6.	US 5965438	10-12-1999	Kadkade et al.	
	7.	US 6127181	10-03-2000	Kadkade	

FOREIGN PATENT DOCUMENTS

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		Country Code:	Number - Kind Code (if known)				YES	NO
	8.	EP	0 147 236 A2	07-03-1985	Medgyesy et al.		<input type="checkbox"/>	<input type="checkbox"/>
	9.	WO	96/36693	11-21-1996	Stafford et al.		<input type="checkbox"/>	<input type="checkbox"/>
	10.	WO	96/39812	12-19-1996	Kadkade et al.		<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
	11.	PANIS et al., "Cryopreservation of <u>Musa</u> Suspension Cultures and Subsequent Regeneration of Plants", CryoLetters, Vol. 11 (1990), pp. 337-350		
	12.	DUSSERT et al., Cryopreservation of Grape Embryogenic Cell Suspensions: 1-Influence of Pretreatment, Freezing and Thawing Conditions", Cryo-Letters, Vol. 12 (1991), pp. 287-298		

EXAMINER SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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			YES	NO
	13.	FRETZ et al., "Cryopreservation of In vitro Cultures of Barely (Hordeum vulgare L. and H. murinum L.) and Transgenic Cells of Wheat (Triticum aestivum L.)" J. Plant Physiol., Vol. 146 (1995), pp. 489-496		
	14.	SEITZ et al., "Growth and Ginenoside Patterns of Cryopreserved Panax ginseng Cell Cultures, J. Plant Physiol., Vol. 131 (1987), pp. 215-223		
	15.	XP002029641 - Advances In Low-Temperature Biology, (Cryopreservation of plant tissues by vitrification) Vol. 1, 1992, Peter L. Steponkus, Cornell University, Ithaca, N. Y.		
	16.	XP000646623 - Vitrification of Plant Cell Suspensions, Chapter 12, pp. 113-120, 1995, P. J. Reinhoud, A Uragami, A. Sakai, F. Van Iren, Methods in Molecular Biology, Vol. 38: Cryopreservation and Freeze Drying Protocols		
	17.	XP000646465 - Cryopreservation, Practical Approach Series, Vol. 145: Plant Cell Culture, 1994, pp. 147-167, Erica E. Benson		
	18.	FRETZ et al., "Cryopreservation of Embryogenic Suspension Cultures of Barley (Hordeum vulgare L.)", Bot. Acta, Vol. 105, (1992), pp. 140-145		
	19.	LU et al., "Cryopreservation of Millet (Setaria italica L.)", J. Plant Physiol., Vol. 139 (1992), pp. 295-298		
	20.	URAGAMI et al., "Cryopreservation of Asparagus (Asparagus officinalis L.) Cultured in vitro", JARQ, Vol. 27 (1993), pp. 112-115		
	21.	REUFF et al., "Cryopreservation of Coleus blumei Suspension and Callus Cultures", J. Plant Physiol., Vol. 133 (1988), pp. 414-418		
	22.	DUSSERT et al., "Cryopreservation of Grape Embryogenic Cell Suspensions 2: Influence of Post-Thaw Culture Conditions and Application to Different Strains", Cryo-Letters, Vol. 13, (1992), pp. 15-22		

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			YES	NO
	23.	WANG et al., Cryopreservation of Embryogenic Cell Suspensions in Festuca and Lolium Species", Plant Science, Vol. 103 (1994), pp. 93-106		
	24.	MCCLELLAN et al., "The Response of four Cultured Plant Cell Lines to Freezing and Thawing in the Presence or Absence of Cryoprotectant Mixtures", Cryo-Letters, Vol. 11 (1990), pp. 189-197		
	25.	NISHIZAWA et al., "Cryopreservation of asparagus (Asparagus officinalis L.) EmbryogenicSuspension Cells and subsequent Plant Regeneration by Vitrification", Plant Science, Vol. 91 (1993), pp. 67-73		
	26.			

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